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In re Application of

Application Number

Filed

08/503606

Jul-18-1985

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## United States Patent [19]

Short

[11] Patent Number:

5,958,672

[45] Date of Patent:

Sep. 28, 1999

[54] PROTEIN ACTIVITY SCREENING OF  
CLONES HAVING DNA FROM  
UNCULTIVATED MICROORGANISMS

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[21] Appl. No.: 08/657,409

[22] Filed: Jun. 3, 1996

## Related U.S. Application Data

[63] Continuation-in-part of application No. 08/568,994, Dec. 7, 1995, abandoned, which is a continuation-in-part of application No. 08/503,606, Jul. 18, 1995.

[51] Int. Cl. C12Q 1/00; C12N 9/00

[52] U.S. Cl. 435/4; 435/183; 435/69.1;  
536/23.1; 536/23.2

[58] Field of Search 435/4, 183, 69.1

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[57]

## ABSTRACT

Disclosed is a process of screening clones having DNA from an uncultivated microorganism for a specified protein, e.g. enzyme, activity by screening for a specified protein, e.g. enzyme, activity in a library of clones prepared by (i) recovering DNA from a DNA population derived from at least one uncultivated microorganism; and (ii) transforming a host with recovered DNA to produce a library of clones which is screened for the specified protein, e.g. enzyme, activity.

15 Claims, 5 Drawing Sheets

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